Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1 (Currently Amended): An image pickup apparatus for picking up an image of a target object in divisions as a plurality of partial images which overlap by a predetermined quantity, comprising:

display means for displaying an image; and

partial image generating means for generating the partial images to be displayed on said display means by dividing a full an entire image of the target image, which is picked up in advance, into predetermined sizes using information related to an overlap of the partial images divided images so that the divided images partially overlap, by displaying one of the divided images, and by picking up and storing a similar image to the displayed one of the divided image,

said displaying and storing being successively carried out with respect to all of the divided images so as to combine the partial images.

2 (Currently Amended): An image pickup apparatus for picking up an image of a target object in divisions as a plurality of partial images which overlap by a predetermined quantity, comprising:

a display unit configured to display displaying an image; and

a generating unit configured to generate generating the partial images to be displayed on said display unit by dividing a full an entire image of the target image, which is picked up in advance, into predetermined sizes using information related to an overlap of the partial images

divided images so that the divided images partially overlap, by displaying one of the divided images, and by picking up and storing a similar image to the displayed one of the divided image,

said displaying and storing being successively carried out with respect to all of the divided images so as to combine the partial images.

3 (Currently Amended): The image pickup apparatus as claimed in claim 2, further comprising:

an overlap quantity specifying unit configured to specifying the predetermined quantity of the overlap of the partial images.

4 (Currently Amended): The image pickup apparatus as claimed in claim 2, wherein said display unit is configured to simultaneously displays a divided image and an image presently being picked up in an overlapping manner.

5 (Currently Amended): The image pickup apparatus as claimed in claim 2, wherein said display unit is configured to simultaneously displays a divided image and an image presently being picked up at different positions.

6 (Currently Amended): The image pickup apparatus as claimed in claim 2, wherein said display unit is configured to time-divisionally displays a divided image and an image presently being picked up at the same position.

7 (Currently Amended): The image pickup apparatus as claimed in claim 2, further comprising:

a switch unit <u>configured to</u> switch~~ing~~ a display on the display unit to one of a divided image and an image presently being picked up.

8 (Currently Amended): The image pickup apparatus as claimed in claim 2, further comprising:

a partial image selecting unit <u>configured to</u> select~~ing~~ a divided image.

9 (Currently Amended): The image pickup apparatus as claimed in claim 2, further comprising:

an interrupt unit <u>configured to</u> interrupt~~ing~~ image pickup of the partial images and returning the image pickup apparatus to a predetermined state.

10 (Currently Amended): The image pickup apparatus as claimed in claim 2, further comprising:

a generating unit <u>configured to generate</u> ~~generating~~ a combined image by combining the partial images.

11 (Currently Amended): An image pickup apparatus for picking up an image of a target object in divisions as a plurality of partial images which overlap by a predetermined quantity, comprising:

field angle setting means for setting a field angle with which the target object is to be picked up;

display means for displaying an image; ~~and~~

partial image generating means for generating the partial images to be displayed on said display means by dividing ~~a full~~ <u>after the predetermined field angle is set by said field angle</u>

setting means an entire image of the target image, which is picked up with a predetermined

field angle set by said field angle setting means, into ~~predetermined sizes using the~~

~~predetermined field angle and information related to an overlap of the partial images after the~~

~~predetermined field angle is set by said field angle setting means~~ divided images so that the

divided images partially overlap; and

said display means configured to display one of the divided images and configured to

pick up and store a similar image to the displayed one of the divided image,

said displaying and storing being successively carried out with respect to all of the

divided images so as to combine the partial images.

12 (Currently Amended): An image pickup apparatus for picking up an image of a

target object in divisions as a plurality of partial images which overlap by a predetermined

quantity, comprising:

a field angle setting unit configured to ~~setting~~ a field angle with which the target object

is to be picked up;

a display unit configured to ~~displaying~~ an image; and

a partial image generating unit configured to generate ~~generating~~ the partial images to

be displayed on said display unit by dividing ~~a full~~ after a predetermined field angle is set by

said field angle setting unit an entire image of the target image, which is picked up with ~~a~~ the

predetermined field angle set by said field angle setting unit, into ~~predetermined sizes using the~~

~~predetermined field angle and information related to an overlap of the partial images after the~~

~~predetermined field angle is set by said field angle setting unit~~ divided images so that the

divided images partially overlap, by displaying one of the divided images, and by picking up

and storing a similar image to the displayed one of the divided image,

said displaying and storing being successively carried out with respect to all of the

divided images so as to combine the partial images.

13 (Currently Amended): The image pickup apparatus as claimed in claim 12, further comprising:

an overlap quantity specifying unit <u>configured to</u> specifying the predetermined quantity of the overlap of the partial images.

14 (Currently Amended): The image pickup apparatus as claimed in claim 12, further comprising:

a setting unit <u>configured to</u> automatically setting the field angle with which the partial images are to be picked up to the predetermined field angle.

15 (Currently Amended): ~~The~~ <u>An</u> image pickup apparatus ~~as claimed in claim 14, further comprising:~~ <u>for picking up an image of a target object in divisions as a plurality of partial images which overlap by a predetermined quantity, comprising:</u>

<u>a field angle setting unit configured to set a field angle with which the target object is to be picked up;</u>

<u>a display unit configured to display an image;</u>

<u>a partial image generating unit configured to generate the partial images to be displayed on said display unit by dividing a full image of the target image which is picked up with a predetermined field angle set by said field angle setting unit into predetermined sizes using the predetermined field angle and information related to an overlap of the partial images after the predetermined field angle is set by said field angle setting unit;</u>

<u>a setting unit configured to automatically set the field angle with which the partial images are to be picked up to the predetermined field angle;</u>

a resolution specifying unit <u>configured to</u> specif~~ying~~ a resolution;

a measuring sensor <u>configured to measure</u> ~~measuring~~ a distance to the target object; and

a calculating unit <u>configured to calculate</u> ~~calculating~~ the predetermined field angle from the resolution specified by said resolution specifying unit and the distance measured by said measuring sensor.

16 (Currently Amended): ~~The~~ <u>An</u> image pickup apparatus ~~as claimed in claim 14, further comprising:~~ <u>for picking up an image of a target object in divisions as a plurality of partial images which overlap by a predetermined quantity, comprising:</u>

<u>a field angle setting unit configured to set a field angle with which the target object is to be picked up;</u>

<u>a display unit configured to display an image;</u>

<u>a partial image generating unit configured to generate the partial images to be displayed on said display unit by dividing a full image of the target image which is picked up with a predetermined field angle set by said field angle setting unit into predetermined sizes using the predetermined field angle and information related to an overlap of the partial images after the predetermined field angle is set by said field angle setting unit;</u>

<u>a setting unit configured to automatically set the field angle with which the partial images are to be picked up to the predetermined field angle;</u>

an object size specifying unit <u>configured to specify</u> ~~specifying~~ a size of the target object;

a resolution setting unit <u>configured to specify or store</u> ~~specifying or storing~~ a resolution; and

a calculating unit <u>configured to calculate</u> ~~calculating~~ the predetermined field angle from the size of the target object specified by the object size specifying unit and the resolution set by

said resolution setting unit.

17 (Currently Amended): The image pickup apparatus as claimed in claim 14, further comprising:

a division number specifying unit configured to specify ~~specifying~~ a number of divisions of a full image of the target object; and

a calculating unit configured to calculate ~~calculating~~ the predetermined field angle from the number of divisions specified by said division number specifying unit.

18 (Currently Amended): The image pickup apparatus as claimed in claim 12, wherein said display unit is configured to simultaneously display~~s~~ a divided image and an image presently being picked up in an overlapping manner.

19 (Currently Amended): The image pickup apparatus as claimed in claim 12, wherein said display unit is configured to simultaneously display~~s~~ a divided image and an image presently being picked up at different positions.

20 (Currently Amended): The image pickup apparatus as claimed in claim 12, wherein said display unit is configured to time-divisionally display~~s~~ a divided image and an image presently being picked up at the same position.

21 (Currently Amended): The image pickup apparatus as claimed in claim 12, further comprising:

a switch unit configured to switch~~ing~~ a display on the display unit to one of a divided image and an image presently being picked up.

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22 (Currently Amended): The image pickup apparatus as claimed in claim 12, further comprising:

a partial image selecting unit <u>configured to</u> select~~ing~~ a divided image.

23 (Currently Amended): The image pickup apparatus as claimed in claim 12, further comprising:

an interrupt unit <u>configured to</u> interrupt~~ing~~ image pickup of the partial images and return~~ing~~ the image pickup apparatus to a predetermined state.

24 (Currently Amended): The image pickup apparatus as claimed in claim 12, further comprising:

a generating unit <u>configured to generate</u> ~~generating~~ a combined image by combining the partial images.

25 (Currently Amended): An image processing method for processing an image of a target object which is picked up by an image pickup apparatus in divisions as a plurality of partial images which overlap by a predetermined quantity, comprising ~~the steps of~~:

~~(a)~~   displaying an image; ~~and~~

~~(b)~~   generating the partial images to be displayed by said step (a) by dividing ~~a full~~ <u>an entire</u> image of the target image<u>,</u> which is picked up in advance<u>,</u> into ~~predetermined sizes~~ ~~using information related to an overlap of the partial images~~ <u>divided images so that the divided images partially overlap;</u>

<u>displaying one of the divided images;</u>

<u>picking up and storing a similar image to the displayed one of the divided image; and</u>

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said displaying and storing are successively carried out with respect to all of the divided

images so as to combine the partial images.

26 (Currently Amended): An image processing method for processing an image of a

target object which is picked up by an image pickup apparatus in divisions as a plurality of

partial images which overlap by a predetermined quantity, comprising ~~the steps of~~:

(a) setting a field angle with which the target object is to be picked up;

(b) displaying an image; and

(c) generating the partial images to be displayed by said step (b) by dividing ~~a full~~

after a predetermined field angle is set by said step (a) an entire image of the target image,

which is picked up with ~~a~~ the predetermined field angle set by said step (a), into ~~predetermined~~

~~sizes using the predetermined field angle and information related to an overlap of the partial~~

~~images after the predetermined field angle is set by said step (a)~~ divided images so that the

divided images partially overlap, by displaying one of the divided images, and by picking up

and storing a similar image to the displayed one of the divided image,

said displaying and storing being successively carried out with respect to all of the

divided images so as to combine the partial images.